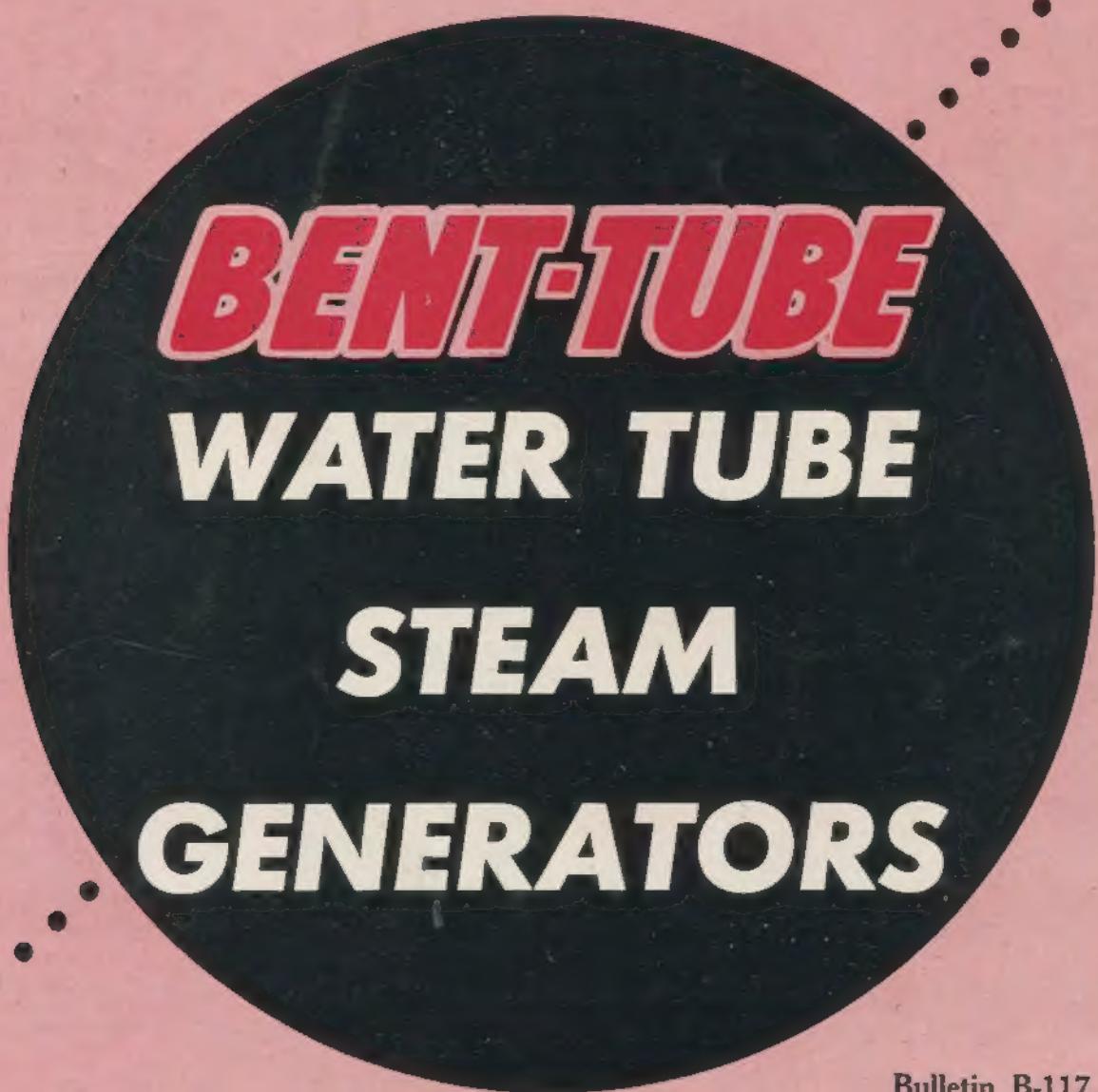


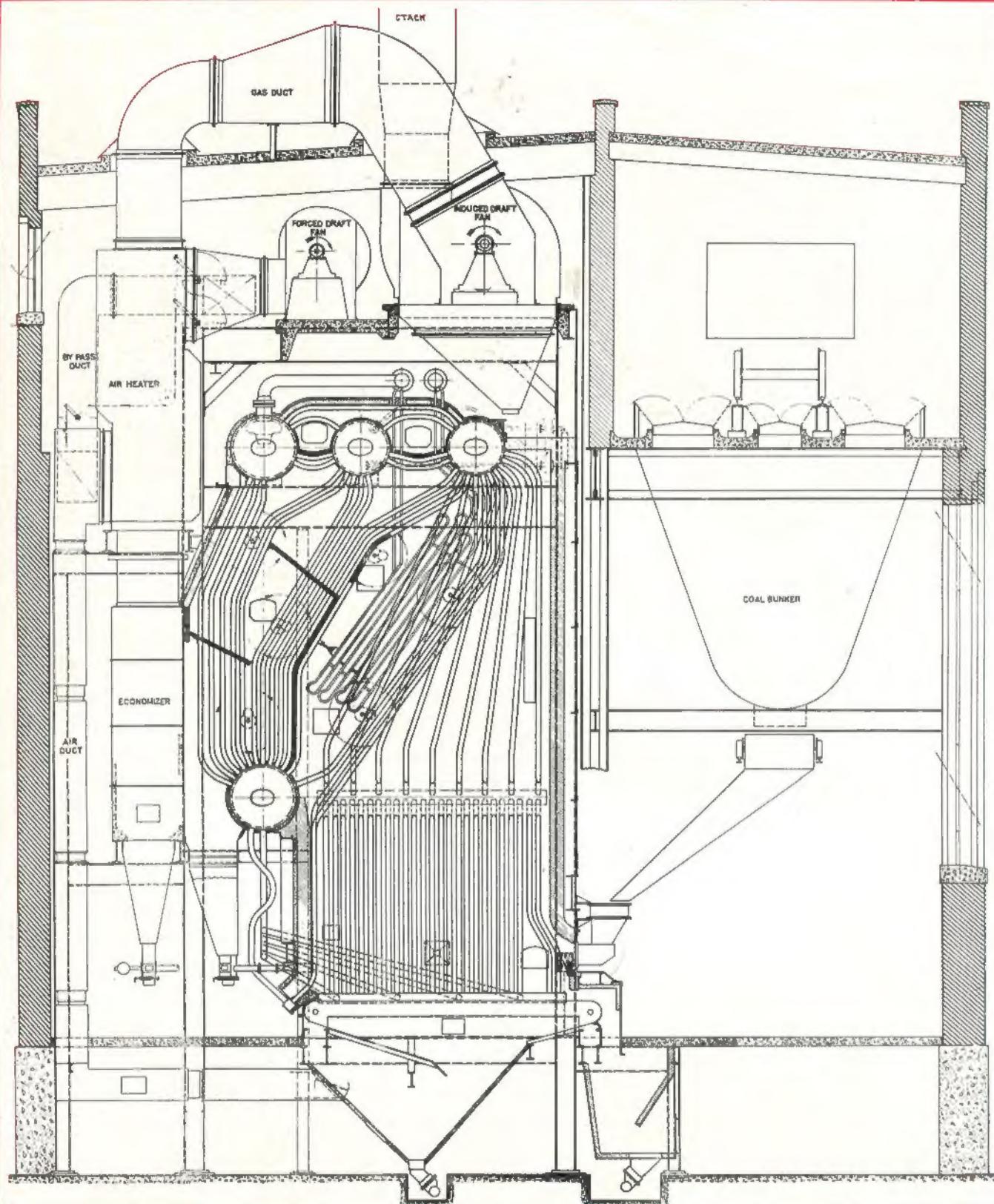
# MURRAY

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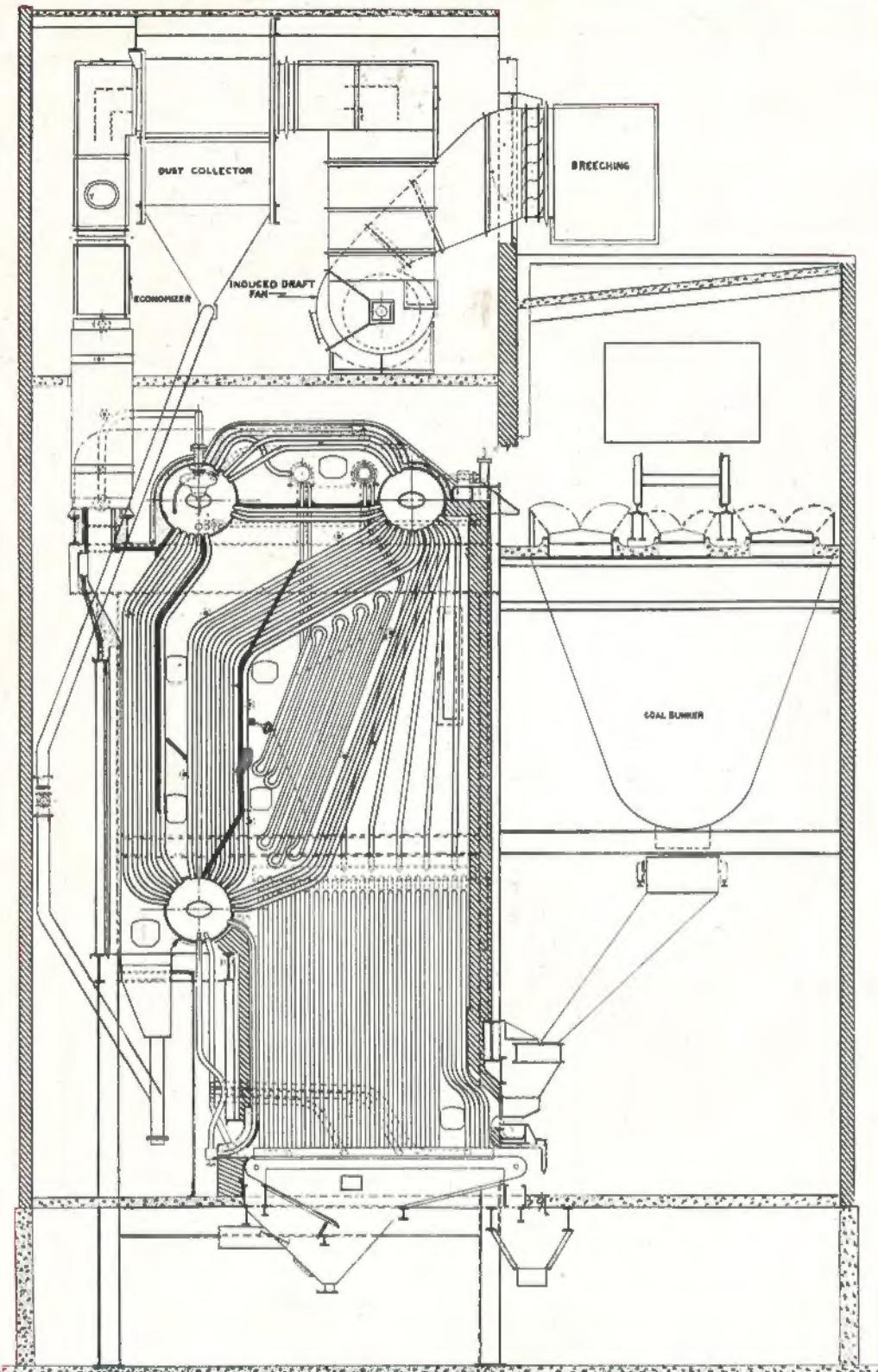
Bulletin B-117

MURRAY IRON WORKS CO. . . . BURLINGTON, IOWA



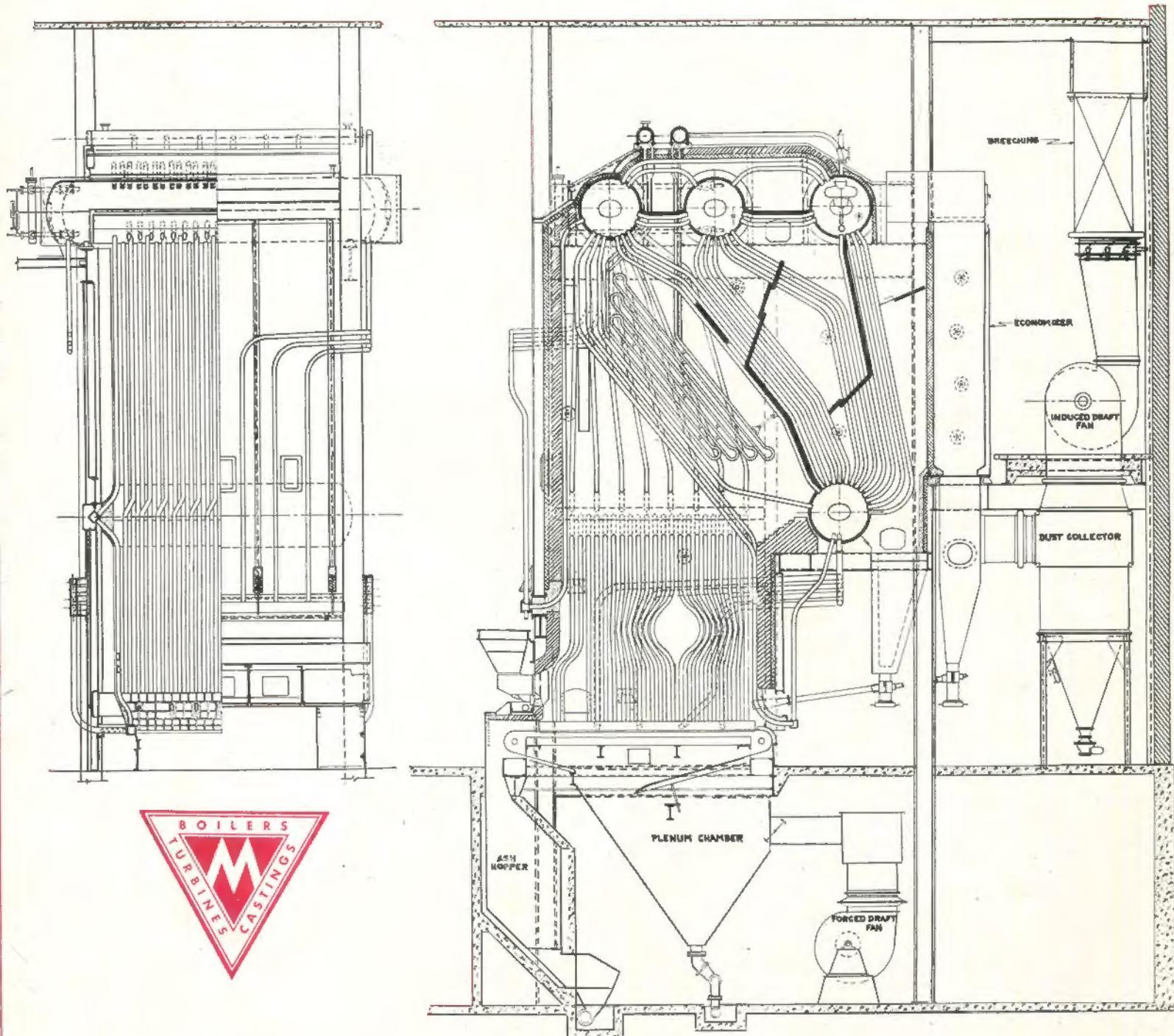
**100,000 Lbs. Per Hour, 475 Lbs., Murray 4-Drum Bent Tube Steam Generator**  
**J. I. Case Co. Tractor Works, Racine, Wisconsin**

Illustrated above is a 4-drum bent tube type boiler equipped with side and rear water walls. An overall efficiency of 88 per cent was obtained and after five years of service a duplicate unit was purchased to replace units of other types, thus attesting to the satisfactory service received from Murray Boilers. These units can be furnished in capacities up to 150,000 pounds per hour and pressures up to 600 pounds.



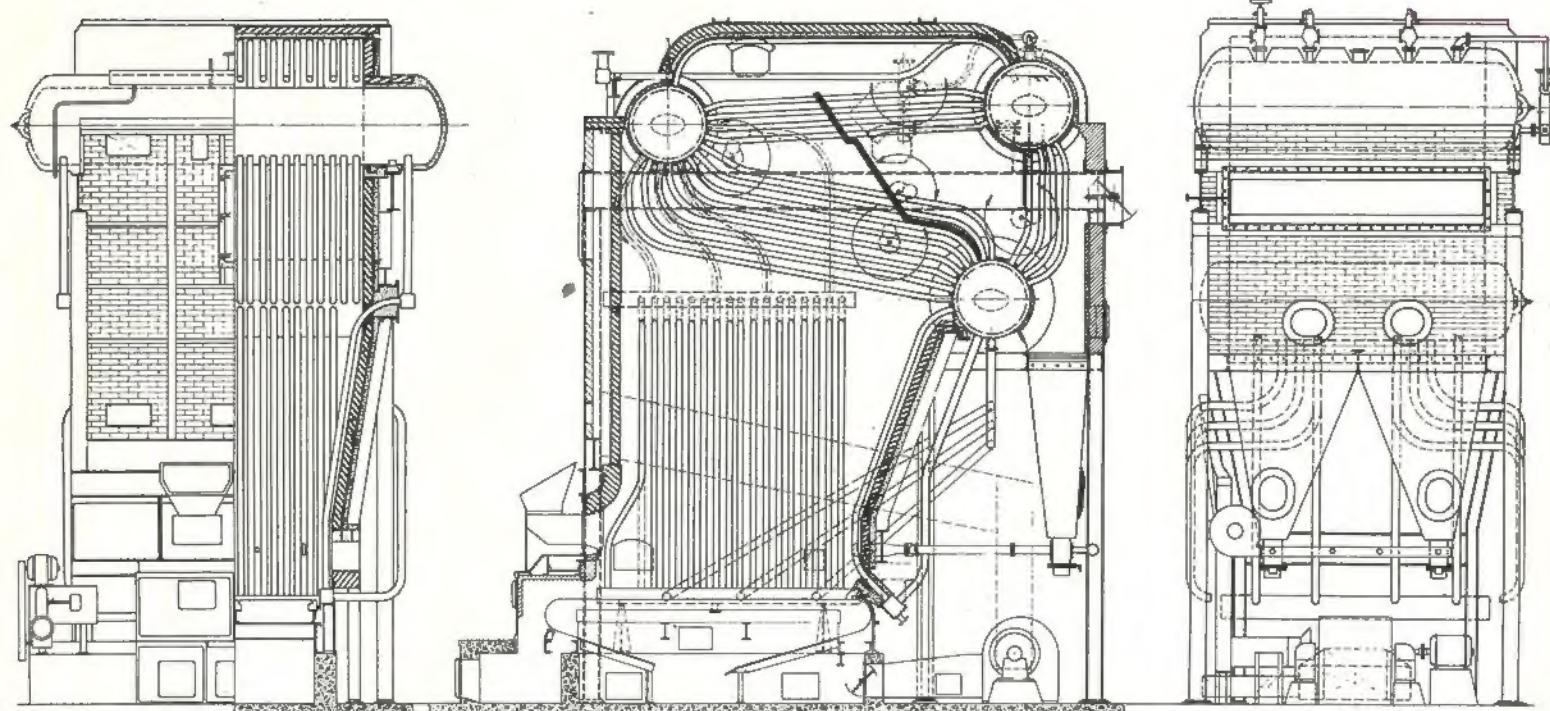
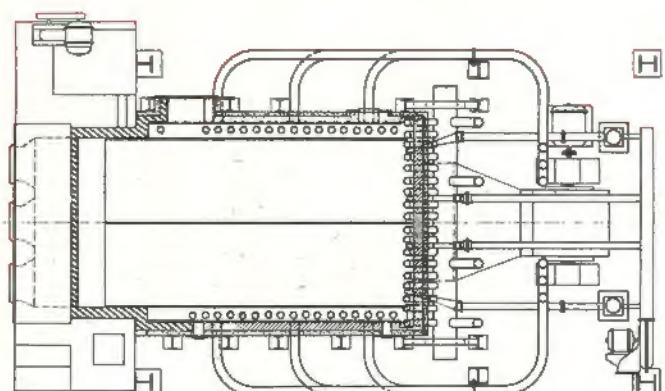
**100,000 Lbs. Per Hour Murray 3-Drum Bent Tube Steam Generator**  
**City Light Plant, Hannibal, Missouri**

The above illustrates a 100,000 pounds per hour 3-drum bent tube steam generator installed at City Light Plant, Hannibal, Missouri. This unit operates at 475 pounds PSIG and 825 degrees Fahrenheit total temperature. This is the fourth Murray unit installed in this plant since 1933 which gives ample proof of satisfaction received from Murray units in this power plant.



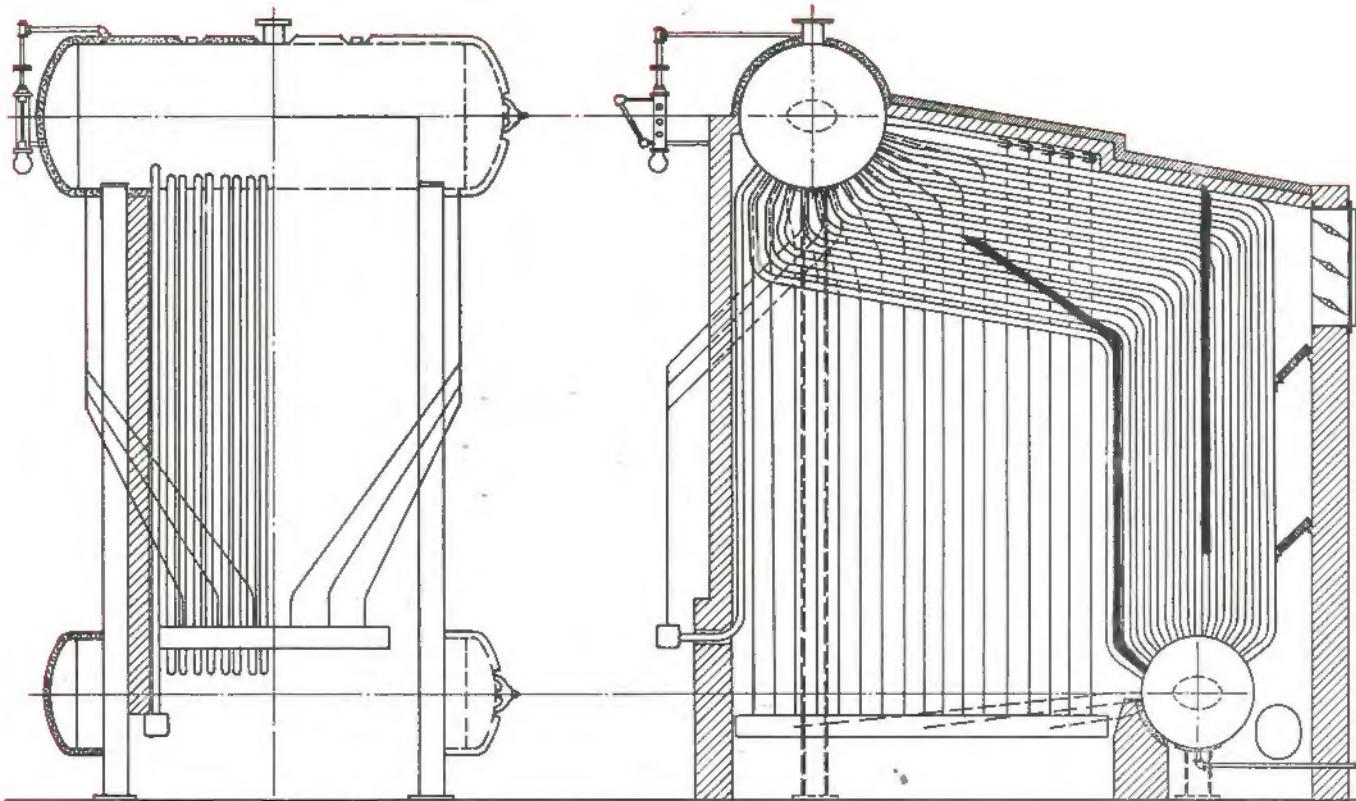
**60,000 Lbs. Per Hour, 475 Lbs., Murray Steam Generator  
City Light Plant, Sibley, Iowa**

All Murray steam generators can be adapted for either coal, gas or oil firing, depending on fuel available. The design shown above was for stoker firing, but water wall tubes were so arranged that future oil burners could be installed at minimum expense and no structural changes to furnace design. Careful planning by Murray designers many times save the customer thousands of dollars in future alterations.



### 30,000 Lbs. per Hr., 600 Lbs. Murray 3-Drum Low Head Bent Tube Boiler

Where space conditions are limited, Murray Iron Works Company is in position to furnish 3-drum low head bent tube boilers with or without water walls for any capacity and for pressures up to 600 pounds and for any type of fuel. The unit shown above which has been in service for the past nine years, carries swing loads from 10 to 35,000 pounds per hour with a minimum of maintenance and attention.



Shown above is one of the several types of two-drum boilers manufactured by the Murray Iron Works Company. These units with modifications can be constructed in capacities up to 100,000 pounds per hour and for pressures up to 600 pounds. Steam drums are of exceptionally large diameter in order to insure adequate steam releasing area. Tube spacing is such that any tube can be renewed without disturbing any other tube. Provision can be made for superheater if desired.

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The Murray Iron Works Company have manufactured all type of boilers continuously since 1870. Many thousands of horsepower of boilers are in successful operation in every state of the Union and many foreign countries.

If you have any special problem involved on any of the types of boilers shown, our Engineering Department would be glad to be of assistance to you in every way possible.